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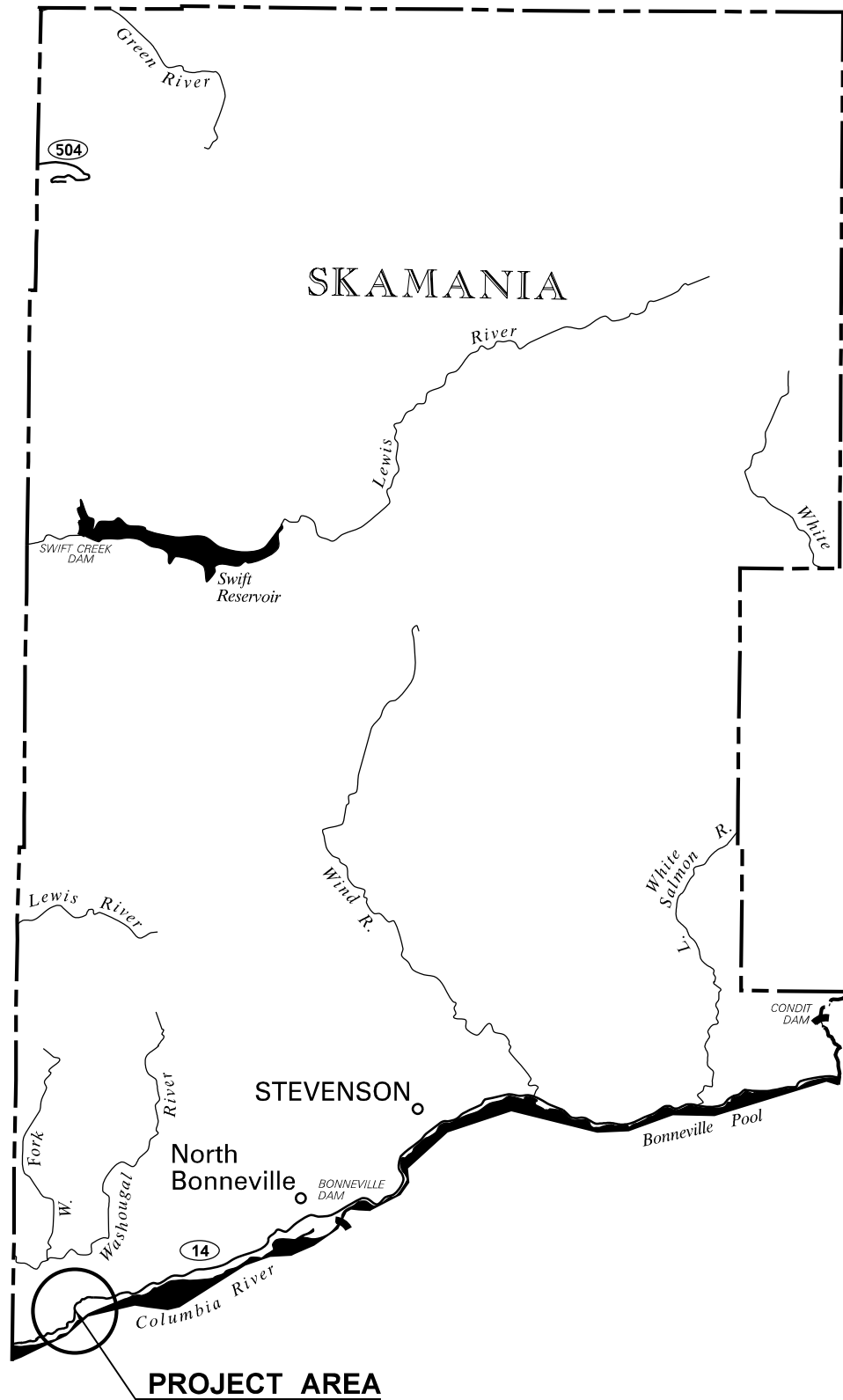
 Jun 23, 2022 AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION AS A LICENSED PROFESSIONAL.	 Jun 23, 2022 AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION AS A LICENSED PROFESSIONAL.	 Jun 24, 2022 AS A PROFESSIONAL ENGINEER IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION AS A LICENSED PROFESSIONAL.	
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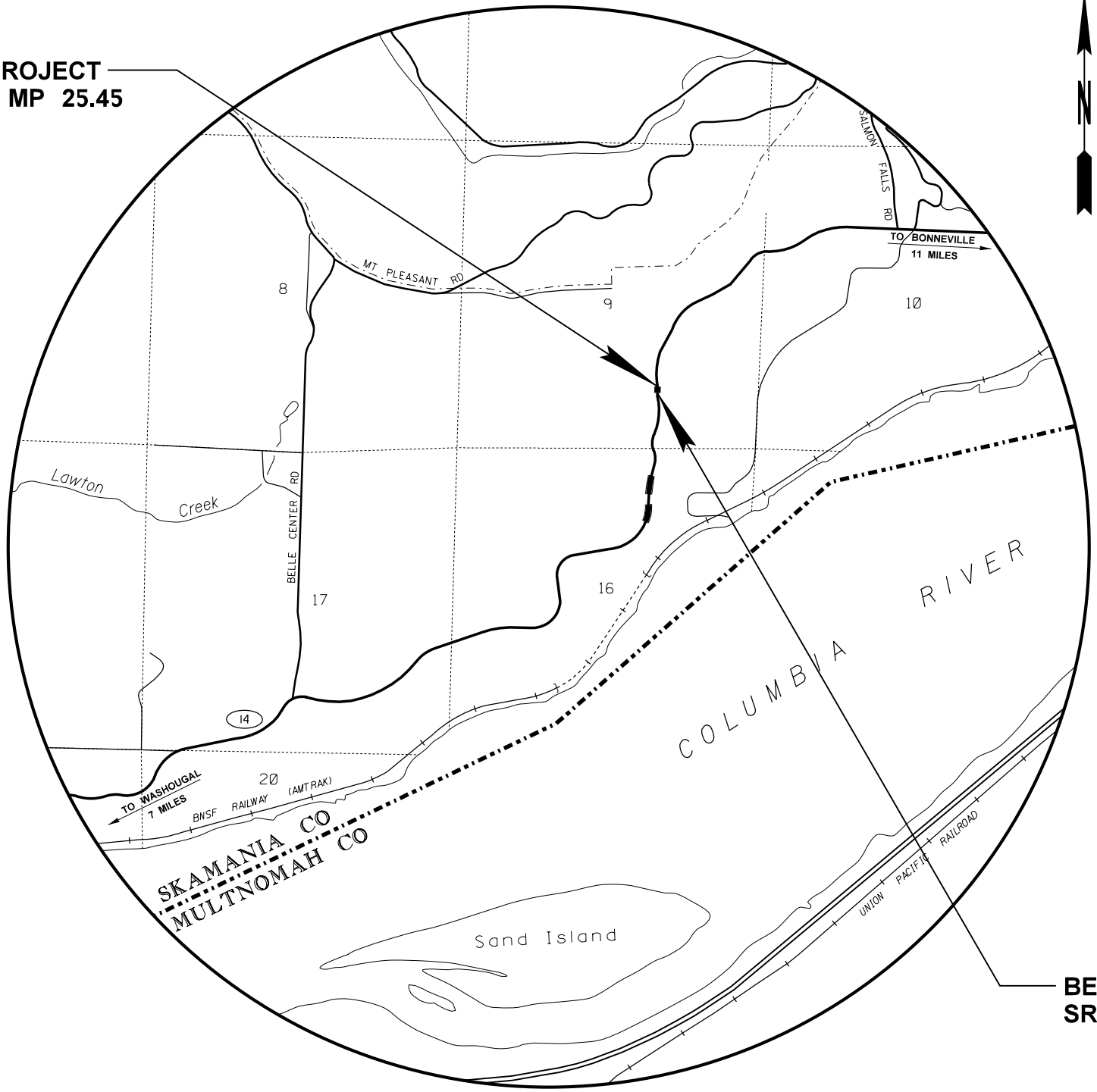
THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION
OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

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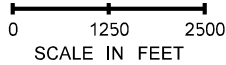
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PROJ. ENGR.	M. BRIGGS						<div><div><div><div><div></div></div></div><div>Washington State Department of Transportation</div></div></div>					22	
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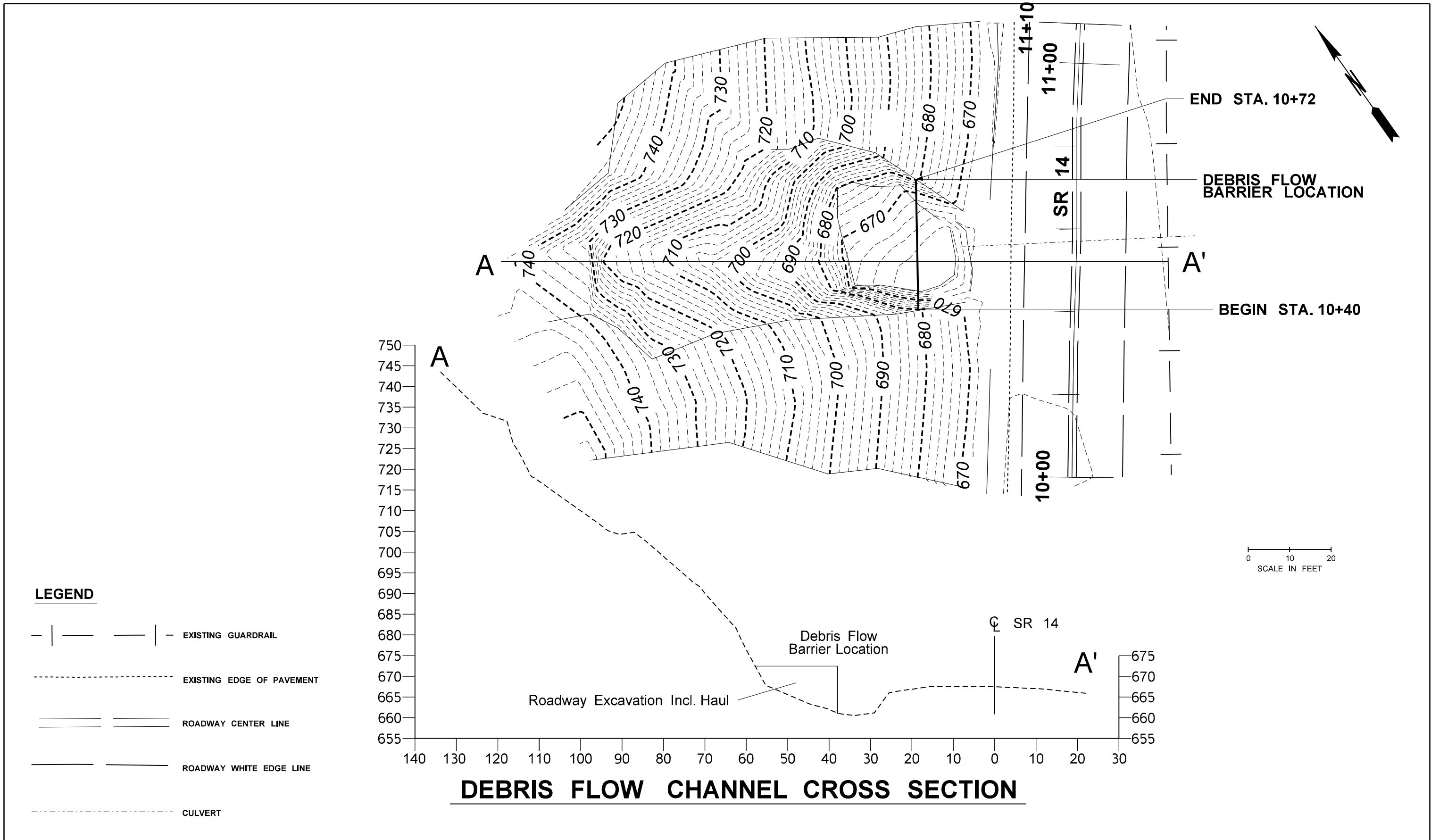
END PROJECT
SR 14 MP 25.45



BEGIN PROJECT
SR 14 MP 25.35

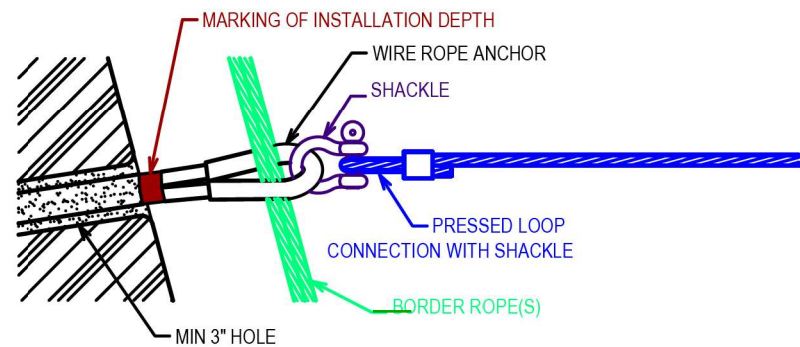
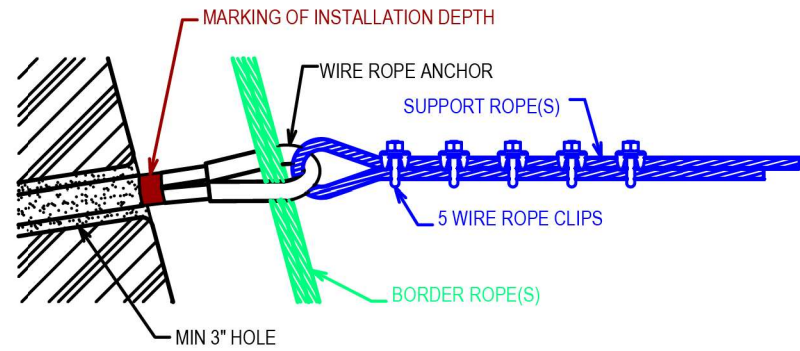
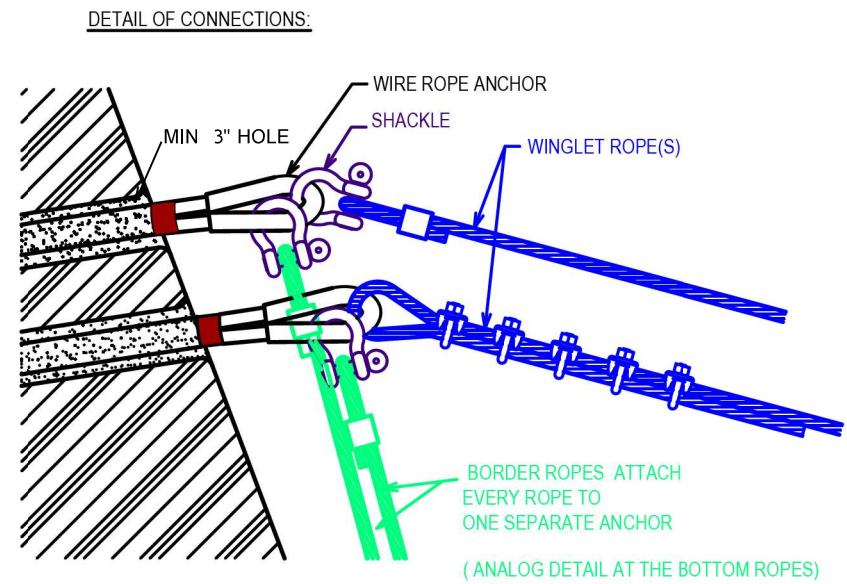
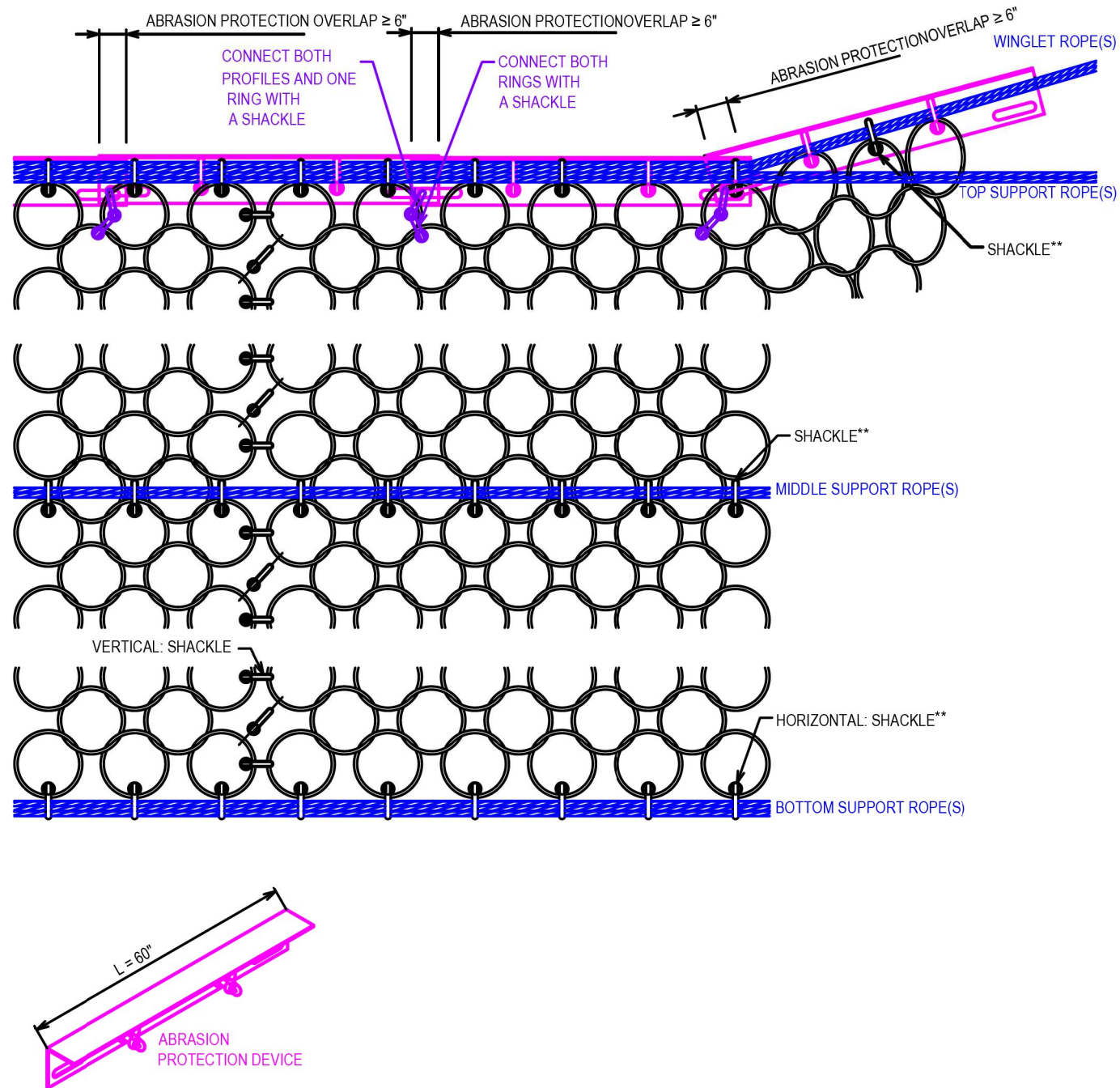


FILE NAME										G:\444302\03 - Design\001421D SR14 1 Mile W of Salmon Falls Rd - Repair Debris Fence\20-CADD-Plans\20-11 PS&E Sheets\XL6376_PS_VM.dgn																														Plot 1									
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DATE					5/16/2022																				10					WASH																			
PLOTTED BY					piercea																				JOB NUMBER					LOCATION NO. XL 6376																			
DESIGNED BY					A. PIERCE																				21X333																								
ENTERED BY					A. PIERCE																				CONTRACT NO.																								
CHECKED BY					D. WISE																																												
PROJ. ENGR.					M. BRIGGS																																												
REGIONAL ADM.					C. FRANCIS																																												
										REVISION										DATE					BY																								



FILE NAMEG:\444302\03 - Design\01421D SR14 1 Mile W of Salmon Falls Rd - Repair Debris Fence\20-CADD-Plans\20-11 PS&E Sheets\XL6376_PS_GT.dgn										Plot 1	
TIME8:48:06 AM						REGION NO.		STATE		FED.AID PROJ.NO.	
DATE6/13/2022						10		WASH		NHPP-0014(088)	
PLOTTED BYhartmat											
DESIGNED BYS. JOHNSTON						JOB NUMBER					
ENTERED BYA. PIERCE						21X333					
CHECKED BYD. WISE						CONTRACT NO.				LOCATION NO.	
PROJ. ENGR.M. BRIGGS										XL 6376	
REGIONAL ADM.C. FRANCIS		REVISION		DATE		BY					

Plot 2
AN REF NO
DFD2
SHEET 6 OF 22 SHEETS





NOTES

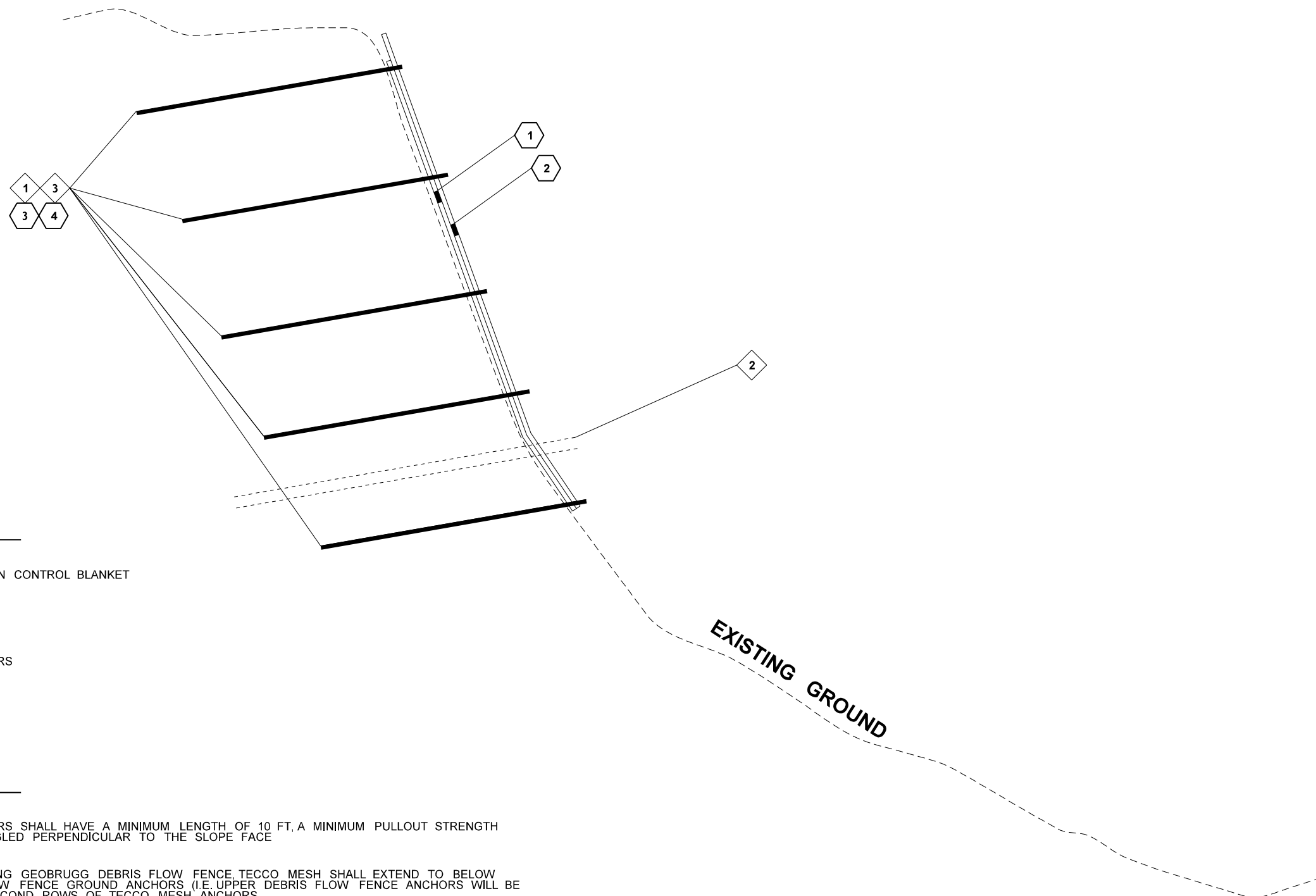
** SHACKLES CAN BE REUSED IF IN GOOD CONDITION.

DEBRIS FLOW BARRIER DETAILS

FILE NAME										G:\444302\03 - Design\001421D SR14 1 Mile W of Salmon Falls Rd - Repair Debris Fence\20-CADD-Plans\20-11 PS&E Sheets\XL6376_PS_GT.dgn										Plot 3																																																																
TIME					2:42:27 PM															REGION NO.					STATE					FED.AID PROJ.NO.										6/13/22										PLAN REF NO																																		
DATE					5/16/2022															10					WASH					NHPP-0014(088)																				DFD3																																		
PLOTTED BY					piercea																																																																															
DESIGNED BY					S. JOHNSTON																				JOB NUMBER																																																											
ENTERED BY					A. PIERCE																				21X333																																																											
CHECKED BY					D. WISE																				CONTRACT NO.					LOCATION NO.																																																						
PROJ. ENGR.					M. BRIGGS																									XL 6376																																																						
REGIONAL ADM.					C. FRANCIS																																																																															
					REVISION																				DATE					BY																																																						

 Washington State Department of Transportation	SR 14 1 MILE W OF SALMON FALLS RD REPAIR DEBRIS FENCE DEBRIS FLOW BARRIER DETAIL
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 Marc F. Fish SEE SHEET CT1 DATE P.E. STAMP BOX	
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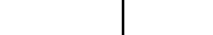



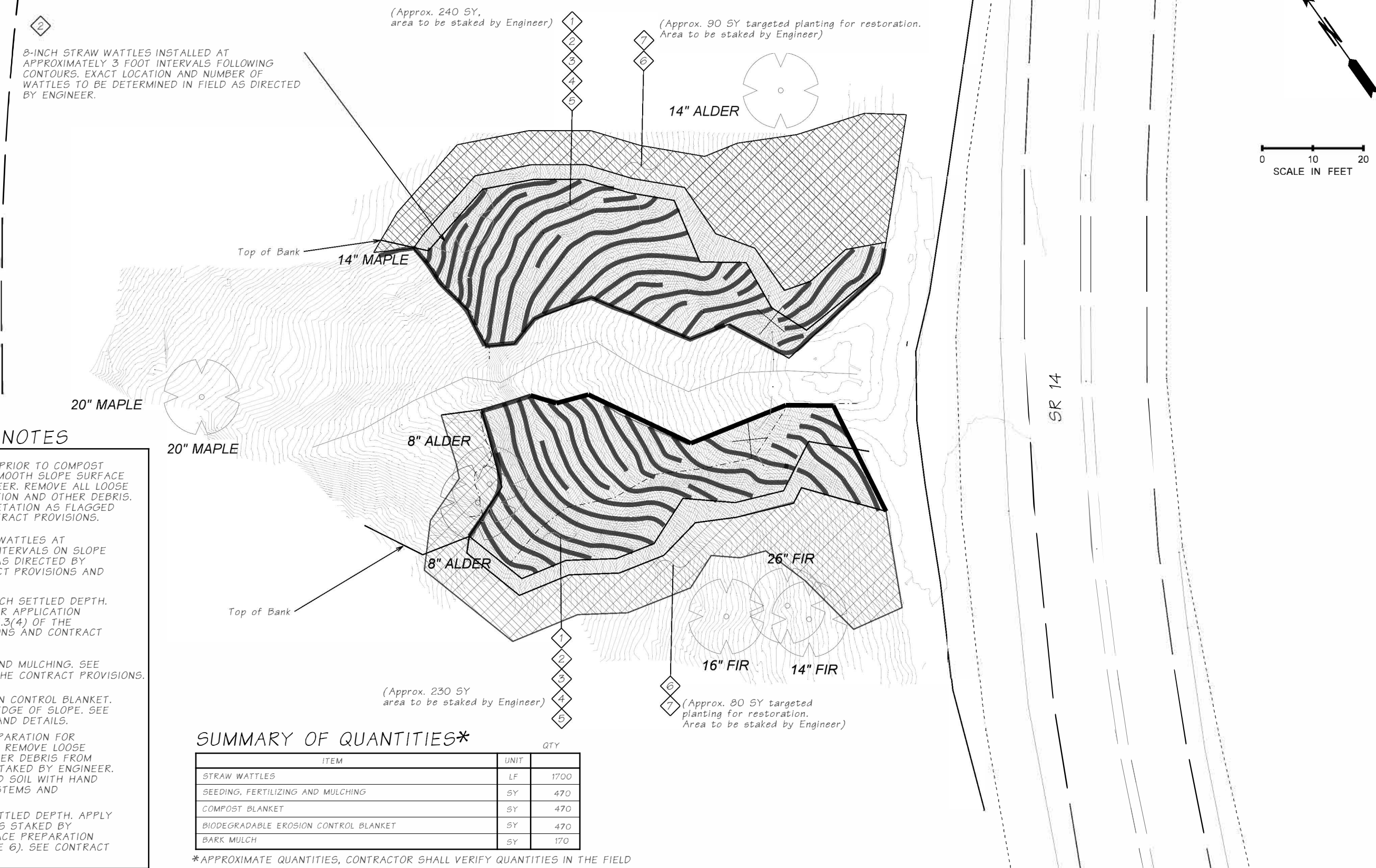
LEGEND

- 1 BIODEGRADABLE EROSION CONTROL BLANKET
- 2 TECCO MESH
- 3 TECCO GROUND ANCHORS
- 4 TYPE 1 ROCK DOWELS

NOTES

- 1 TECCO GROUND ANCHORS SHALL HAVE A MINIMUM LENGTH OF 10 FT, A MINIMUM PULLOUT STRENGTH OF 25 KIPS, AND BE ANGLED PERPENDICULAR TO THE SLOPE FACE
- 2 AT LOCATION OF EXISTING GEOBRUGG DEBRIS FLOW FENCE, TECCO MESH SHALL EXTEND TO BELOW THE UPPER DEBRIS FLOW FENCE GROUND ANCHORS (I.E. UPPER DEBRIS FLOW FENCE ANCHORS WILL BE BETWEEN FIRST AND SECOND ROWS OF TECCO MESH ANCHORS)
- 3 TYPE 1 ROCK DOWELS TO BE PLACED AT THE DIRECTION OF THE ENGINEER IF NEEDED. ROCK DOWELS SHALL BE A MINIMUM OF 10 LF IN LENGTH AND SHALL HAVE A MINIMUM PULLOUT CAPACITY OF 25 KIPS.

FILE NAME					G:\444302\03 - Design\001421D SR14 1 Mile W of Salmon Falls Rd - Repair Debris Fence\20-CADD-Plans\20-11 PS&E Sheets\XL6376_PS_GT.dgn					 Marc F. Fish 6/13/22 SEE SHEET CT1 DATE		 Washington State Department of Transportation		SR 14			Plot 7	
TIME		2:43:30 PM			REGION NO.		STATE							PLAN REF NO				
DATE		5/16/2022			10		WASH			FED.AID PROJ.NO. NHPP-0014(088)			TMD1					
PLOTTED BY		piercea			JOB NUMBER		21X333			LOCATION NO.			SHEET					
DESIGNED BY		S. JOHNSTON			CONTRACT NO.					XL 6376			8					
ENTERED BY		A. PIERCE											OF					
CHECKED BY		D. WISE											22					
PROJ. ENGR.		M. BRIGGS											SHEETS					
REGIONAL ADM.		C. FRANCIS			REVISION		DATE			BY			TECCO MESH DETAIL					



CONSTRUCTION NOTES

- 1 SURFACE PREPARATION PRIOR TO COMPOST BLANKET PLACEMENT. SMOOTH SLOPE SURFACE AS DIRECTED BY ENGINEER. REMOVE ALL LOOSE ROCKS, ROOTS, VEGETATION AND OTHER DEBRIS. PROTECT EXISTING VEGETATION AS FLAGGED BY ENGINEER. SEE CONTRACT PROVISIONS.
- 2 INSTALL 8-INCH STRAW WATTLES AT APPROXIMATELY 3-FT. INTERVALS ON SLOPE FOLLOWING CONTOURS, AS DIRECTED BY ENGINEER. SEE CONTRACT PROVISIONS AND DETAILS.
- 3 COMPOST BLANKET, 3-INCH SETTLED DEPTH. PNEUMATIC OR CONVEYER APPLICATION ONLY. SEE SECTION 8-01.3(4) OF THE STANDARD SPECIFICATIONS AND CONTRACT PROVISIONS.
- 4 SEEDING, FERTILIZING AND MULCHING. SEE SECTION 8-02.3(9) OF THE CONTRACT PROVISIONS.
- 5 BIODEGRADABLE EROSION CONTROL BLANKET. ANCHOR ABOVE UPPER EDGE OF SLOPE. SEE CONTRACT PROVISIONS AND DETAILS.
- 6 SITE AND SURFACE PREPARATION FOR RESTORATION PLANTING. REMOVE LOOSE ROCKS, ROOTS, AND OTHER DEBRIS FROM DISTURBED AREAS AS STAKED BY ENGINEER. LOOSEN ANY COMPACTED SOIL WITH HAND TOOLS. PRUNE BROKEN STEMS AND BRANCHES.
- 7 BARK MULCH, 3-INCH SETTLED DEPTH. APPLY TO DISTURBED AREAS AS STAKED BY ENGINEER, AFTER SURFACE PREPARATION FOR RESTORATION (NOTE 6). SEE CONTRACT PROVISIONS.

SUMMARY OF QUANTITIES*

ITEM	UNIT	QTY
STRAW WATTLES	LF	1700
SEEDING, FERTILIZING AND MULCHING	SY	470
COMPOST BLANKET	SY	470
BIODEGRADABLE EROSION CONTROL BLANKET	SY	470
BARK MULCH	SY	170

*APPROXIMATE QUANTITIES, CONTRACTOR SHALL VERIFY QUANTITIES IN THE FIELD

FILE NAME		G:\Roadside\01_projects\014\11 Columbia R. Gorge Nat. Scenia Area\MP 25 vic Debris Flow Fence 2021\CAD\MT0666 SR14 Debris Fence Roadside PS 2.dgn		REGION NO.		STATE		FED.AID PROJ.NO.		PLAN REF NO.	
TIME		8:23:16 AM		10		WASH		NHPP-0014(088)		NA1	
DATE		6/13/2022		JOB NUMBER		21X333		LOCATION NO.		SHEET	
PLOTTED BY		knappb		CONTRACT NO.				XL 6376		12	
DESIGNED BY		B. KNAPP								OF	
ENTERED BY		B. KNAPP								22	
CHECKED BY		D. CORLETT								SHEETS	
PROJ. ENGR.		M. BRIGGS									
REGIONAL ADM.		C. FRANCIS		REVISION		DATE		BY			

Washington State Department of Transportation

SR 14

1 MILE W OF SALMON FALLS RD

REPAIR DEBRIS FENCE

SOIL PREPARATION

Plot 1

PLAN REF NO

NA1

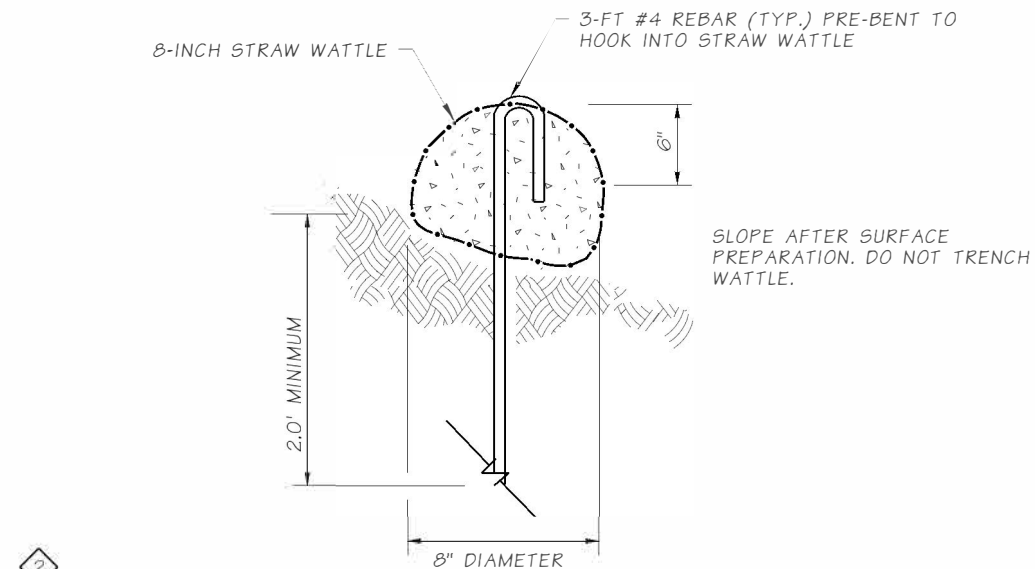
SHEET

12

OF

22

SHEETS



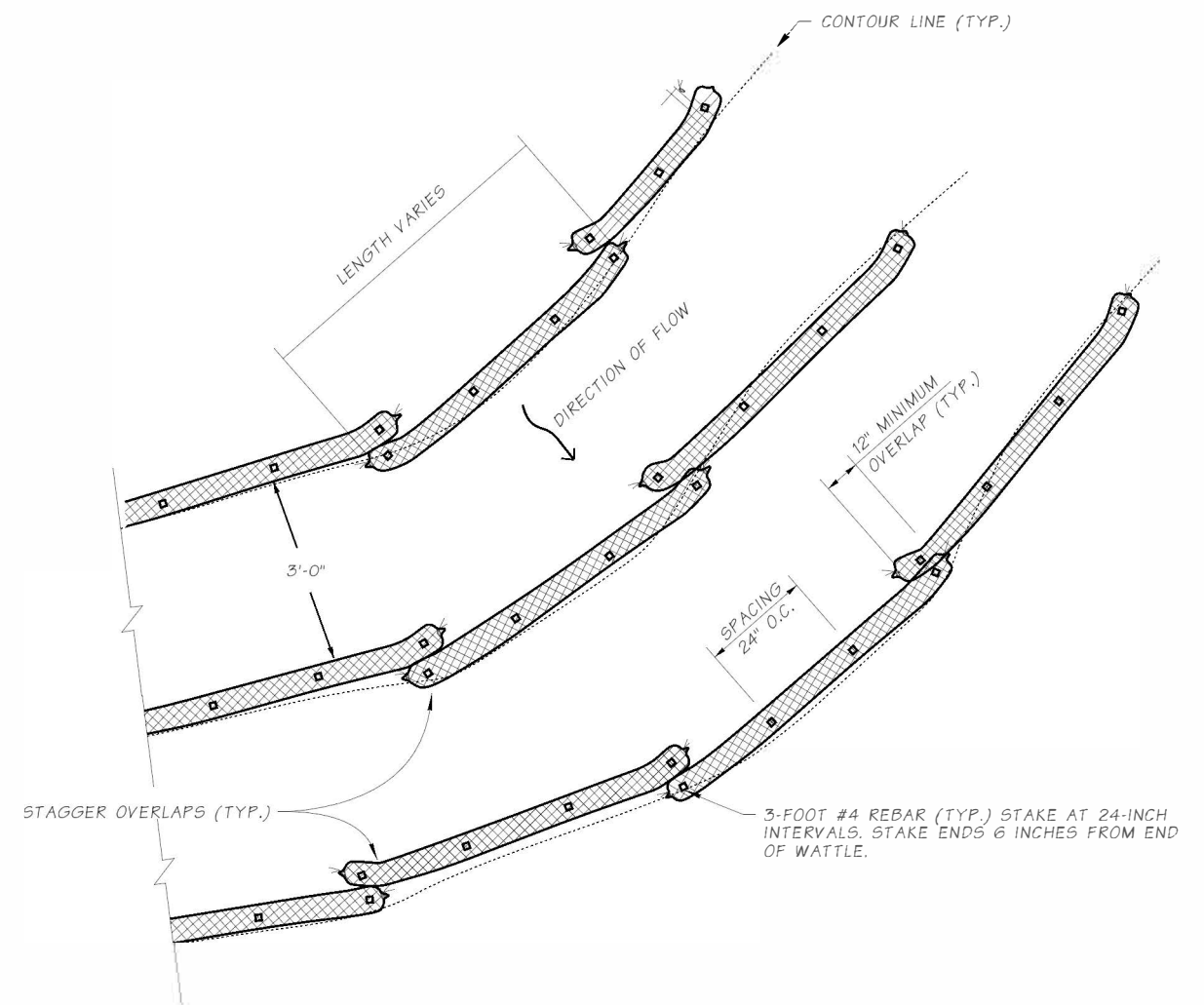
2
STRAW WATTLE INSTALLATION
NOT TO SCALE

CONSTRUCTION NOTES

- 1 SURFACE PREPARATION PRIOR TO COMPOST BLANKET PLACEMENT. SMOOTH SLOPE SURFACE AS DIRECTED BY ENGINEER. REMOVE ALL LOOSE ROCKS, ROOTS, VEGETATION AND OTHER DEBRIS. PROTECT EXISTING VEGETATION AS FLAGGED BY ENGINEER. SEE CONTRACT PROVISIONS.
- 2 INSTALL 8-INCH STRAW WATTLES AT APPROXIMATELY 3-FT. INTERVALS ON SLOPE FOLLOWING CONTOURS, AS DIRECTED BY ENGINEER. SEE CONTRACT PROVISIONS AND DETAILS.
- 3 COMPOST BLANKET, 3-INCH SETTLED DEPTH. PNEUMATIC OR CONVEYER APPLICATION ONLY. SEE SECTION 8-01.3(4) OF THE STANDARD SPECIFICATIONS AND CONTRACT PROVISIONS.
- 4 SEEDING, FERTILIZING AND MULCHING. SEE SECTION 8-02.3(9) OF THE CONTRACT PROVISIONS.
- 5 BIODEGRADABLE EROSION CONTROL BLANKET. ANCHOR ABOVE UPPER EDGE OF SLOPE. SEE CONTRACT PROVISIONS AND DETAILS.
- 6 SITE AND SURFACE PREPARATION FOR RESTORATION PLANTING. REMOVE LOOSE ROCKS, ROOTS, AND OTHER DEBRIS FROM DISTURBED AREAS AS STAKED BY ENGINEER. LOOSEN ANY COMPACTED SOIL WITH HAND TOOLS. PRUNE BROKEN STEMS AND BRANCHES.
- 7 BARK MULCH, 3-INCH SETTLED DEPTH. APPLY TO DISTURBED AREAS AS STAKED BY ENGINEER, AFTER SURFACE PREPARATION FOR RESTORATION (NOTE 6). SEE CONTRACT PROVISIONS.

NOTES

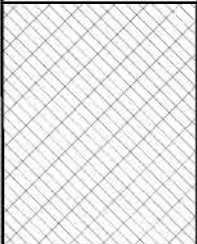

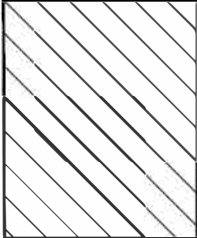
1. INSTALL STRAW WATTLES ON PREPARED SLOPE SURFACE.
2. INSTALL WATTLES PERPENDICULAR TO FLOW ALONG CONTOURS.
3. DRIVE PRE-BENT REBAR STAKES THROUGH STRAW WATTLES INTO SOIL SLOPE AT 24-INCH INTERVALS. REBAR SHALL BE INSTALLED PERPENDICULAR TO THE SLOPE AT A MINIMUM 2 FOOT DEPTH. SIX INCH BENT END OF STAKE SHALL BE DRIVEN INTO WATTLE.
4. WATTLES SHALL BE FLUSH TO THE GROUND SURFACE WITH NO GAPS OR BENDS. WATTLES SHALL NOT BE COMPRESSED TO A DIAMETER OF LESS THAN 6 INCHES DURING STAKING. DO NOT TRENCH WATTLES.
2. OVERLAP ADJACENT WATTLE ENDS 12" BEHIND ONE ANOTHER AND STAKE IN PLACE.



3
STRAW WATTLE PLACEMENT
NOT TO SCALE

FILE NAME		G:\Roadside\01_projects\014\11 Columbia R. Gorge Nat. Scenia Area\MP 25 vic Debris Flow Fence 2021\CAD\MT0666 SR14 Debris Fence Roadside				PS 2.dgn				Plot 1	
TIME		8:26:19 AM								PLAN REF NO	
DATE		6/13/2022								NA3	
PLOTTED BY		knappb								SHEET	
DESIGNED BY		B KNAPP								14	
ENTERED BY		B KNAPP								OF	
CHECKED BY		D CORLETT								22	
PROJ. ENGR.		M. BRIGGS								SHEETS	
REGIONAL ADM.		C. FRANCIS									
		REVISION		DATE		BY					

ROADSIDE RESTORATION PLANT MATERIAL SCHEDULE

Symbol	Plant Code	Botanical Name	Common Name	Height	Root Type	A.S.N.S.	Spacing	Layout	Notes	Total in mix *
N/A	TREES (TMR)	<i>Pseudotsuga menziesii</i>	Douglas Fir	#7 min. (3' min.)	Cont.	4.7.2 Type 4	where staked	na	Min. 24" spread. Unsheared. Do not stake.	10
	SHRUB Mix A (SMA)	<i>Amelanchier alnifolia</i>	Western Serviceberry	18"-36"	B.R.	3.4.2 Type 3	where staked	na	4 canes min.	50
		<i>Holodiscus discolor</i>	Creambush Oceanspray	18"-36"	B.R.	3.4.2 Type 3	where staked	na	4 canes min.	50
		<i>Mahonia aquifolium</i>	Tall Oregon Grape	#1	Cont.	5.7.2 Type 4	where staked	na	3 stems min.	100
		<i>Polystichum munitum</i>	Sword Fern	#1	Cont.		where staked	na	5 fronds min.	100
		<i>Symphoricarpos albus</i>	Snowberry	18"-36"	B.R.	3.3.2 Type 2	where staked	na	4 canes min.	250
	GRASS MIX A (GMA)	<i>Elymus glaucus</i>	Blue Wild Rye		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length/ 4" min top growth	600
		<i>Festuca idahoensis</i>	Idaho Fescue		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length/ 4" min top growth	450
		<i>Symphoricarpos albus</i>	Snowberry	6"-12"	10 ci Plug or B.R.		24" oc	Triang.	5" min. root length/ 6" min top growth	350
	GRASS MIX B (GMB)	<i>Achillea millefolium</i>	Yarrow		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length	100
		<i>Anaphalis margaritacea</i>	Pearly Everlasting		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length	100
		<i>Elymus glaucus</i>	Blue Wild Rye		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length/ 4" min top growth	750
		<i>Festuca idahoensis</i>	Idaho Fescue		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length/ 4" min top growth	550
		<i>Koeleria macrantha</i>	Prairie Junegrass		10 ci Plug or B.R.		12" oc	Triang.	5" min. root length/ 4" min top growth	100

B&B Balled and Burlaped
B.R. Bare Root
Cont. Container
O.C. On Center
A.S.N.S. American Standards
 for Nursery Stock

*APPROXIMATE QUANTITIES, CONTRACTOR SHALL VERIFY QUANTITIES IN THE FIELD

PLANTING NOTES:

1. All material shall meet the requirements of the American Standard Nursery Stock, April 14, 2014. Conflicts between the ASNS and these specifications, then these specifications shall apply. A letter of compliance with the "American Standard of Nursery Stock" is required from the supplier for all plant material.

2. All plant material shall be nursery grown stock. Container plant material shall be well rooted in pot and meet requirements of Section 9-14.7(1) and 9-14.7(2) of the contract provisions.

3. Tree heights shall be measured at the midpoint between the uppermost whorl and the tip of the leader.


4. Planting areas shall be staked by contractor and approved by the Engineer prior to planting.

5. No plant material shall be planted until it has been inspected and approved for planting by the Engineer.

6. Plant material shall be stored and handled per section 9-14.7(3) of the contract provisions.
7. Plant material shall be installed per section 8-02.3(8) of the standard specifications and contract provisions.

8. Plants to be randomly mixed within designated plant groups as approved by the Engineer unless specified otherwise. Completely remove burlap, wire baskets, plastic, string or wire lacing fromthe plant material and planting hole. Roots of bareroot stock shall not be bunched, curled, twisted, or unreasonably bent when placed in the planting hole. Loosen sides and roots of container plants prior to installation, cut circling roots. All plant crowns to be free of bark mulch.

9. See planting details and contract provisions.

FILE NAME				G:\Roadside\01_projects\014\11 Columbia R. Gorge Nat. Scenia Area\MP 25 vic Debris Flow Fence 2021\CAD\MT0666 SR14 Debris Fence Roadside PS 2.dgn				Plot 1	
TIME				8:29:10 AM				PLAN REF NO	
DATE				6/13/2022				NB1	
PLOTTED BY				knappb				<div><div><p>Washington State Department of Transportation</p></div><div>SR 14 1 MILE W OF SALMON FALLS RD REPAIR DEBRIS FENCE</div><div>PLANTING PLAN</div></div>	
DESIGNED BY				B. KNAPP					
ENTERED BY				B. KNAPP					
CHECKED BY				D. CORLETT					
PROJ. ENGR.				M. BRIGGS					
REGIONAL ADM.				C. FRANCIS				SHEET 16 OF 22 SHEETS	
REVISION		DATE		BY		R EGION NO. STATE 10 WASH		FED.AID PROJ.NO. NHPP-0014(088)	
						JOB NUMBER 21X333		LOCATION NO. XL 6376	
						CONTRACT NO.		SEE SHEET-CT1 DATE	
						P.E. STAMP BOX		DATE	
						P.E. STAMP BOX		DATE	

CONSTRUCTION NOTES

- 1

PLANT FROM EDGE OF AREA, NO SETBACK.
- 2

PLANT AS STAKED BY ENGINEER TO RESTORE DISTURBED AREAS AND ACCESS POINTS. QUANTITY OF SMA WILL DEPEND ON TOTAL AREA OF DISTURBANCE. INCREASED AREA OF DISTURBANCE WILL REQUIRE MORE PLANTS.
- 3

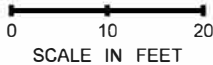
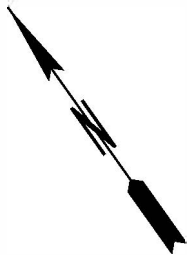
DO NOT PLANT INTO STRAW WATTLE. FLAG OR MARK STRAW WATTLE LOCATIONS PRIOR TO PLANTING.



20" MAPLE

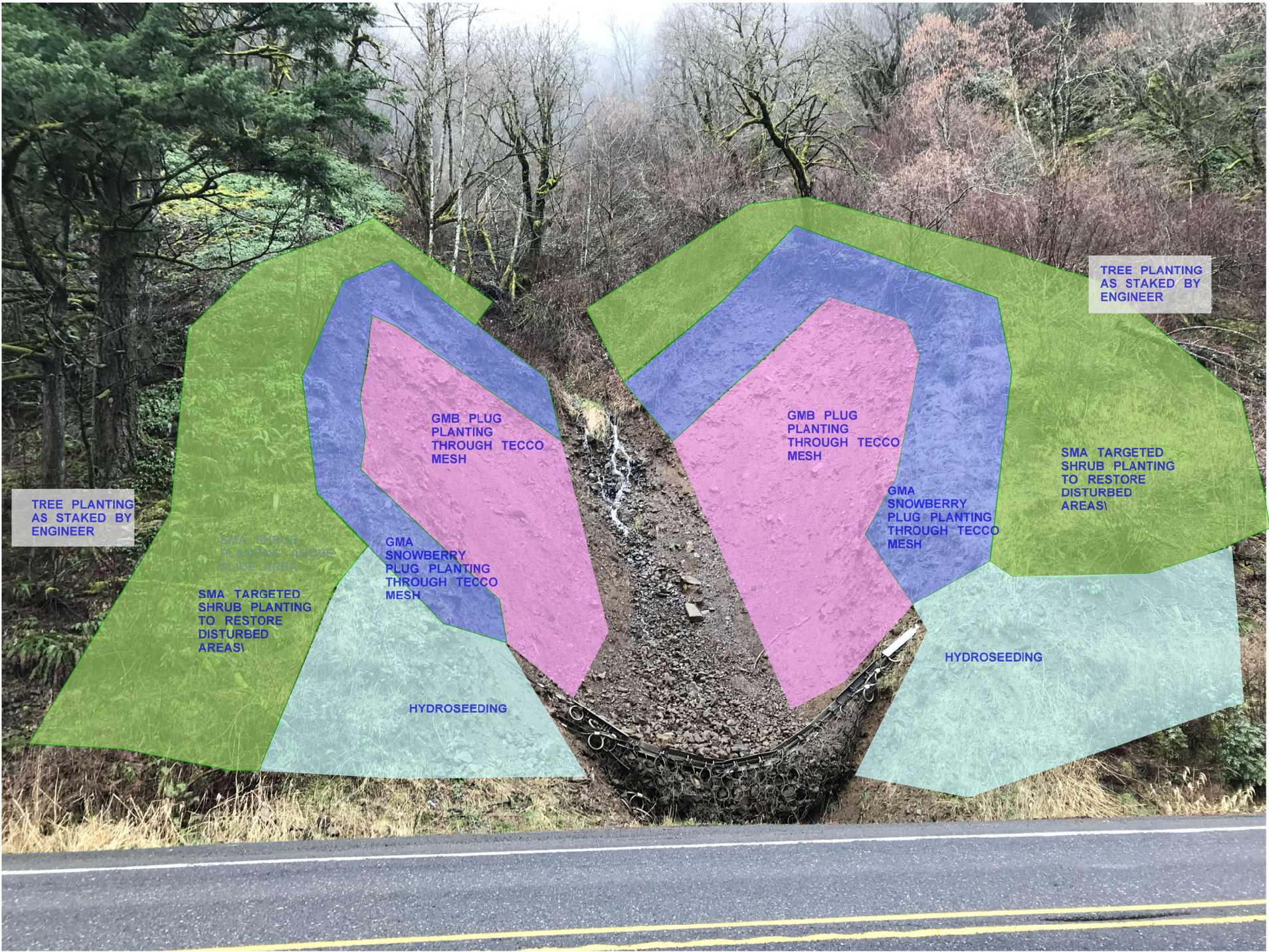
Top of Bank

Top of Bank




SCALE IN FEET

FILE NAME										G:\Roadside\01_projects\014\11 Columbia R. Gorge Nat. Scenia Area\MP 25 vic Debris Flow Fence 2021\CAD\MT0666 SR14 Debris Fence Roadside PS 2.dgn										Plot 1																													
TIME										8:30:29 AM										FED.AID PROJ.NO.										SR 14										PLAN REF NO									
DATE										6/13/2022										NHPP-0014(088)										1 MILE W OF SALMON FALLS RD										NB2									
PLOTTED BY										knappb										10 WASH										REPAIR DEBRIS FENCE										SHEET									
DESIGNED BY										B. KNAPP										JOB NUMBER										21X333										17									
ENTERED BY										B. KNAPP										CONTRACT NO.										XL 6376										22									
CHECKED BY										D. CORLETT										LOCATION NO.										PLANTING PLAN										SHEETS									
PROJ. ENGR.										M. BRIGGS										REVISION										DATE										BY									
REGIONAL ADM.										C. FRANCIS										DATE										BY										DATE									



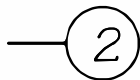
CONCEPT ILLUSTRATION. ACTUAL AREAS TO BE DETERMINED AS DIRECTED BY ENGINEER.

FILE NAME										G:\Roadside\01_projects\014\11 Columbia R. Gorge Nat. Scenia Area\MP 25 vic Debris Flow Fence 2021\CAD\MT0666 SR14 Debris Fence Roadside PS 2.dgn																				Plot 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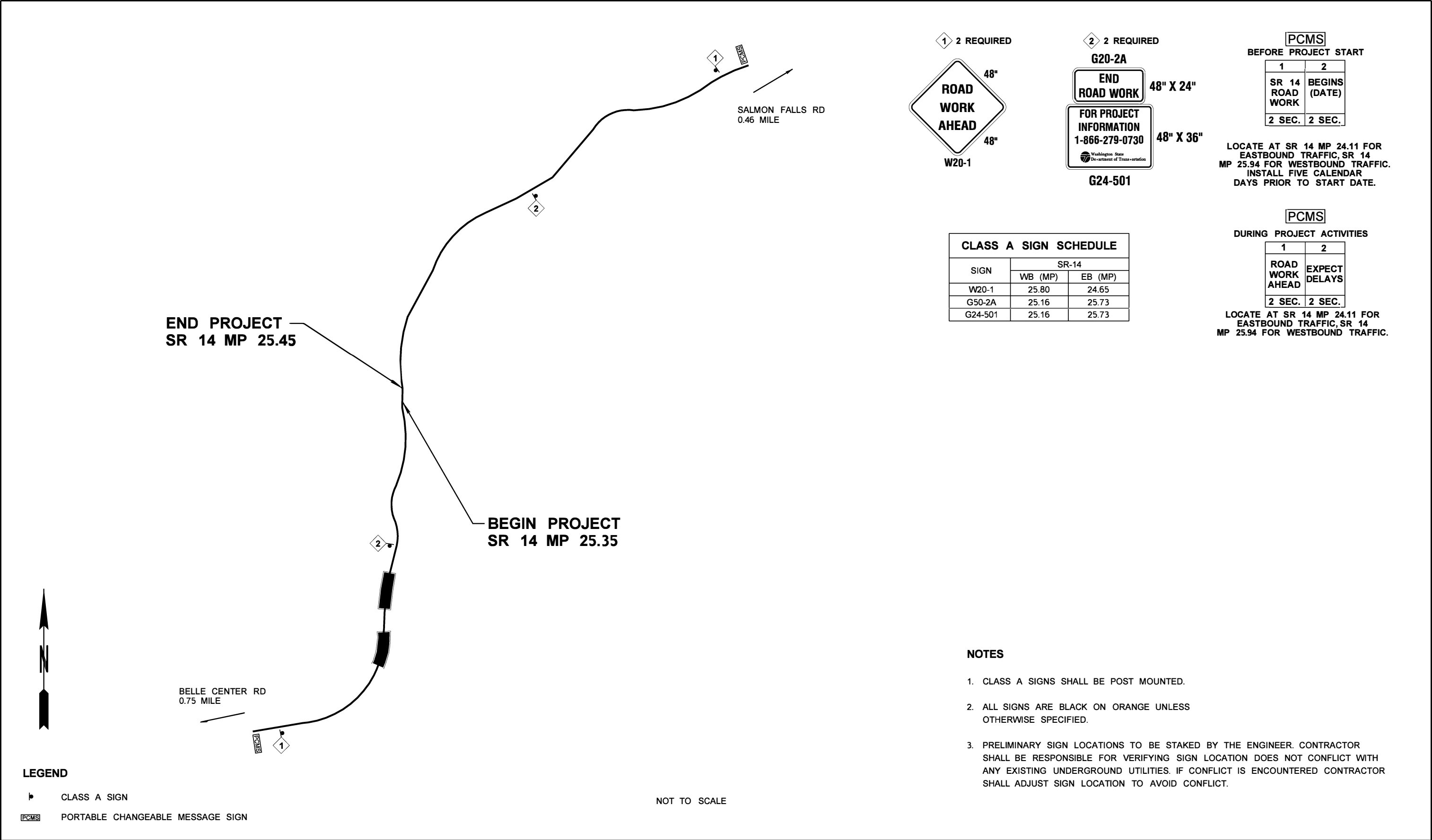
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FILE NAME G:\444302\03 - Design\001421D SR14 1 Mile W of Salmon Falls Rd - Repair Debris Fence\20-CADD-Plans\20-11 PS&E Sheets\XL6376 PS_TC.dgn										Plot 4
TIME 2:50:12 PM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. NHPP-0014(088)				PLAN REF NO CS1
DATE 5/16/2022				JOB NUMBER 21X333	CONTRACT NO.					SHEET 20 OF 22 SHEETS
PLOTTED BY piercea						LOCATION NO. XL 6376				
DESIGNED BY A. PIERCE						Washington State Department of Transportation				
ENTERED BY A. PIERCE										
CHECKED BY D. WISE						SR 14 1 MILE W OF SALMON FALLS RD REPAIR DEBRIS FENCE				
PROJ. ENGR. M. BRIGGS										
REGIONAL ADM. C. FRANCIS		REVISION	DATE	BY		CLASS A SIGN PLAN				

